PT6A-28 Turboprop Engine
PT6A Gasturbine Engines

- [https://engineering.purdue.edu/~propulsie/propulsion/index.htm](https://engineering.purdue.edu/~propulsie/propulsion/index.htm)

Turboshaft Engine

Turboprop Engine
Air enters the PT6A through a scoop at the rear of the engine, passes through a three-stage axial compressor, a single-stage radial compressor, then through the combustion chamber. The hot exhaust gases pass through a single-stage turbine which drives the engine compressor shaft, and then through a two-stage turbine which drives the propeller shaft, before exiting at the front of the engine.
videoplayback_18.FLV
videoplayback_21.FLV
Manufacturer’s Showcase Pratt Whitney Canada’s Legendary PT6 Engine Flying Magazine.flv
Allison 250 Turboshaft Engine

EAS3503
Aerospace Propulsion
Allison C250 Turboshaft Engine

Source: Allison Engine Company
Rolls-Royce (Allison) 250-B17F

Turboshift  
Turboprop
Allison 250 Turboshaft
MGB Power Train System
The freewheeling unit shaft outer race (#14) is driven by the engine. The inner race shaft (#1) attaches to the main drive shaft and is driven by #14. The spline adapter shaft (#28) leads to the tail rotor.
Engine to Main Gearbox drive train
• videoplayback_20.FLV
• Allison 250 Turboshaft engine Start and Run up - YouTube.WEBM